



**MAIL STOP PCT**

IFW

Docket No. 288272US0PCT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Kazumi YAGASAKI, et al.

SERIAL NO: 10/572,945

GAU:

FILED: March 22, 2006

EXAMINER:

FOR: COMPOSITION FOR PREVENTING AND TREATING HEPATOMA

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

**REFERENCES**

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**RELATED CASES**

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**CERTIFICATION**

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

**DEPOSIT ACCOUNT**

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

Norman F. Oblon

Registration No. 24,618

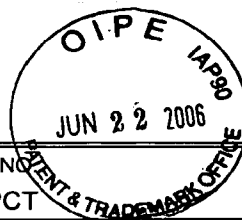
Customer Number

**22850**

Tel. (703) 413-3000  
Fax. (703) 413-2220  
(OSMMN 05/03)

Surinder Sachar

Registration No. 34,423



Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. <b>288272US0PCT</b>		SERIAL NO. <b>10/572,945</b>	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT <b>Kazumi YAGASAKI, et al.</b>			
				FILING DATE <b>March 22, 2006</b>		GROUP	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<b>/Z.V./</b>	AA	2003/0118676	06/26/03	RAO et al.			
↓	AB	2002/0061854	05/23/02	AHOTUPA et al.			
	AC	2001/0016590	08/23/01	AHOTUPA et al.			
	AD	2004/0048804	03/11/04	AHOTUPA et al.			
	AE	6 689 809	02/10/04	AHOTUPA et al.			
	AF						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
<b>/Z.V./</b>	AG	11-221048	08/17/99	JP (with English abstract)			NO
↓	AH	2003-63971	03/05/03	JP (with English abstract)			NO
	AI	2002-541158	12/03/02	JP (equivalent of US6 451 849)			NO
	AJ	1-228928	09/12/89	JP (with English abstract)			NO
	AK						
	AL						
	AM						
	AN						
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
<b>/Z.V./</b>	AO	THOMPSON, Lilian U. et al., "Role of lignans in carcinogenesis", Phytochemicals in Human Health Protection, Nutrition, and Plant Defense, Pages 51-65, 1999.					
<b>/Z.V./</b>	AP	AXELSON, M. et al., "The excretion of lignans in rats - evidence for an intestinal bacterial source for this new group of compounds", FEBS Letters, Vol. 123, No. 2, Pages 337-342, 1981.					
<b>/Z.V./</b>	AQ	SERRAINO Maria et al., "The effect of flaxseed supplementation on early risk markers for mammary carcinogenesis", Cancer Letters, Vol. 60, Pages 135-142, 1991.					
<b>/Z.V./</b>	AR	SERRAINO, M. et al., "The effect of flaxseed supplementation on the initiation and promotional stages of mammary tumorigenesis", Nutrition and Cancer, Vol. 17, No. 2, Pages 153-159, 1992.					
<b>/Z.V./</b>	AS	THOMPSON, Lilian U. et al., "Antitumorigenic effect of a mammalian lignan precursor from flaxseed", Nutrition and Cancer, Vol. 26, No. 2, Pages 159-165, 1996.					
<b>/Z.V./</b>	AT	THOMPSON, Lilian U. et al., "Flaxseed and its lignan and oil components reduce mammary tumor growth at a late stage of carcinogenesis", Carcinogenesis, Vol. 17, No. 6, Pages 1373-1376, 1996.					
<b>/Z.V./</b>	AU	LANDSTROEM, Marene et al., "Inhibitory effects of soy and rye diets on the development of Dunning R3327 prostate adenocarcinoma in rats", The Prostate, Vol. 36, Pages 151-161, 1998.					
<b>/Z.V./</b>	AV	ZHANG J.-X. et al., "Soy and rye diets inhibit the development of dunning R3327 prostatic adenocarcinoma in rats", Cancer Letters, Vol. 114, Pages 313-314, 1997.					
<b>/Z.V./</b>	AW	MIURA, Yutaka et al., "Assay systems for screening food components that have anti-proliferative and anti-invasive activity to rat ascites hepatoma cells: In vitro and ex vivo effects of green tea extract", Cytotechnology, Vol. 23, Pages 127-132, 1997.					
<b>/Z.V./</b>	AX	MIURA, Yutaka et al., "Inhibitory effect of serum from rats administered with coffee on the proliferation and invasion of rat ascites hepatoma cells", Cytotechnology, Vol. 25, Pages 221-225, 1997.					
<b>/Z.V./</b>	AY	KOMATSU, Wataru et al., "Suppression of hypercholesterolemia in hepatoma-bearing rats by cabbage extract and its component, S-Methyl-L-Cysteine sulfoxide", Lipids, Vol. 33, No. 5, pages 499-503, 1998.					
<b>/Z.V./</b>	AZ	ZHANG, Guoying et al., "Effects of green, oolong and black teas and related components on the proliferation and invasion of hepatoma cells in culture", Cytotechnology, Vol. 31, Pages 37-44, 1999.					<input checked="" type="checkbox"/> Additional References sheet(s) attached
Examiner <b>/Zohreh Vakili/</b>					Date Considered <b>03/27/2010</b>		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							



Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 288272US0PCT		SERIAL NO. 10/572,945	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Kazumi YAGASAKI, et al.			
				FILING DATE March 22, 2006		GROUP	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
/Z.V./	AAA	KOZUKI, Yasuhiro et al., "Inhibitory effects of carotenoids on the invasion of rat ascites hepatoma cells in culture", Cancer Letters, Vol. 151, Pages 111-115, 2000.					
	AAB	YAGASAKI, Kazumi et al., "Inhibitory effects of chlorogenic acid and its related compounds on the invasion of hepatoma cells in culture", Cytotechnology, Vol. 33, Pages 229-235, 2000.					
	AAC	ZHANG, Guoying et al., "Suppression of adhesion and invasion of hepatoma cells in culture by tea compounds through antioxidative activity", Cancer Letters, Vol. 159, Pages 169-173, 2000.					
	AAD	ZHANG, Guoying et al., "Induction of Apoptosis and cell cycle arrest in cancer cells by in vivo metabolites of teas", Nutrition and Cancer, Vol. 38, No. 2, Pages 265-273, 2000.					
	AAE	KOZUKI, Yasuhiro et al., "Inhibitory effect of curcumin on the invasion of rat ascites hepatoma cells in vitro and ex vivo", Cytotechnology, Vol. 35, Pages 57-63, 2001.					
	AAF	KOZUKI, Yasuhiro et al., "Resveratrol suppresses hepatoma cell invasion independently of its anti-proliferative action", Cancer Letters, Vol. 167, Pages 151-156, 2001.					
	AAG	ZHANG, Guoying et al., "Inhibition of hepatoma cell invasion beneath mesothelial-cell monolayer by sera from tea- and related component-treated rats and their modes of action", Cytotechnology, Vol. 36, Pages 187-193, 2001.					
	AAH	ZHANG, Guoying et al., "Inhibitory effects of theanine and sera from theanine-fed rats on receptor-mediated cancer cell invasion beneath mesothelial-cell monolayers", Cytotechnology, Vol. 36, Pages 199-200, 2001.					
	AAI	ZHANG, Guoying et al., "Effects of dietary powdered green tea and theanine on tumor growth and endogenous hyperlipidemia in hepatoma-bearing rats", Biosci. Biotechnol. Biochem., Vol. 66, No. 4, Pages 711-716, 2002.					
	AAJ	KOMATSU, Wataru et al., "Induction of tumor necrosis factor production and antitumor effect by cabbage extract", Nutrition and Cancer, Vol. 43, No. 1, Pages 82-89, 2002.					
	AAK	MIURA, Yutaka et al., "Potentiation of invasive activity of hepatoma cells by reactive oxygen species is mediated by autocrine/paracrine loop of hepatocyte growth factor", Biochemical and Biophysical Research Communication, Vol. 305, Pages 160-165, 2003.					
	AAL	MIURA, Daiki et al., "Hypolipidemic action of dietary resveratrol, a phytoalexin in grapes and red wine, in hepatoma-bearing rats", Life Sciences, Vol. 73, Pages 1393-1400, 2003.					
	AAM	MIURA, Daiki et al., "Restoration by prostaglandins E2 and F2x for resveratrol-induced suppression of hepatoma cell invasion in culture", Cytotechnology, Vol. 43, Pages 115-159, 2003.					
	AAN	MIURA, Yutaka et al., "Inhibitory effect of coffee on hepatoma proliferation and invasion in culture and on tumor growth, Metastasis and abnormal lipoprotein profiles in hepatoma-bearing rats", J. Nutr. Sci. Vitaminol., Vol. 50, Pages 38-44, 2004.					
	AAO	MIURA, Daiki et al., "Resveratrol inhibits hepatoma cell invasion by suppressing gene expression of hepatocyte growth factor via its reactive oxygen species-scavenging property", Clinical & Experimental Metastasis, Vol. 21, Pages 445-451, 2004.					
↓	AAP	HIRAKAWA, Nobuhiro et al., "Anti-invasive activity of niacin and trigonelline against cancer cells", Biosci. Biotechnol. Biochem., Vol. 69, No. 3, Pages 653-658, 2005.					
Examiner /Zohreh Vakili/				Date Considered 03/27/2010			
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							



U.S. PCT Application Serial No: 10/572,945

Filed: March 22, 2006

Kazumi YAGASAKI, et al.

Docket No. 288272 US

#### STATEMENT OF RELEVANCY

- 1) References AA, AG - AJ & AO have been cited in the International Search Report. A copy of these references is being submitted herewith.
- 2) References            have been cited in the corresponding            Search Report. A copy of these references is being submitted herewith.
- 3) References AP - AV are discussed in the specification. A copy of these references is being submitted herewith.
- 4) References AB-AE, AW - AZ & AAA - AAP are additional prior art known to Applicant. A copy of these references is being submitted herewith.